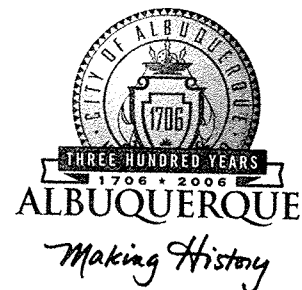


CITY OF ALBUQUERQUE



April 7, 2005

Richard Hall, PE
Bohannon Huston, Inc
7500 Jefferson NE
Albuquerque, NM 87109

Re: NMUI Well No 9 Grading and Drainage Plan
Engineer's Stamp dated 12-27-04, (C9/D5)

Dear Mr. Hall,

Based upon the information provided in your submittal dated 12-27-04, the above referenced plan is approved for Preliminary Plat, Site Plan and Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, prior to Certificate of Occupancy release, Engineer Certification of the grading plan per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham

Bradley L. Bingham, PE
Principal Engineer, Planning Dept
Development and Building Services

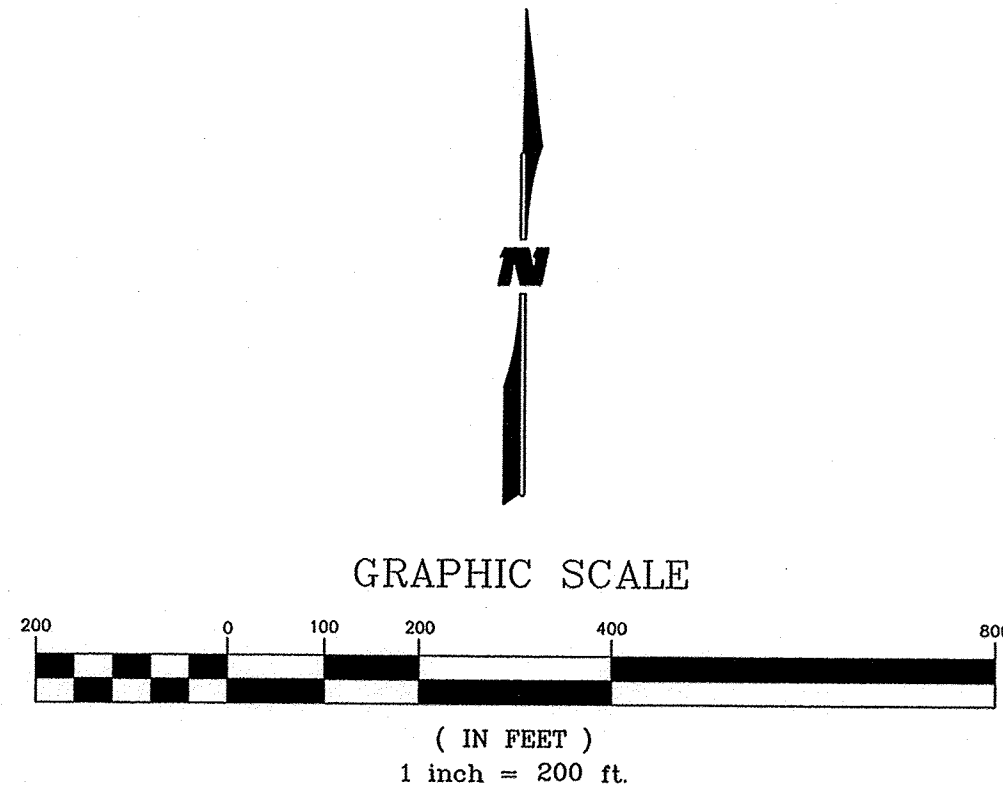
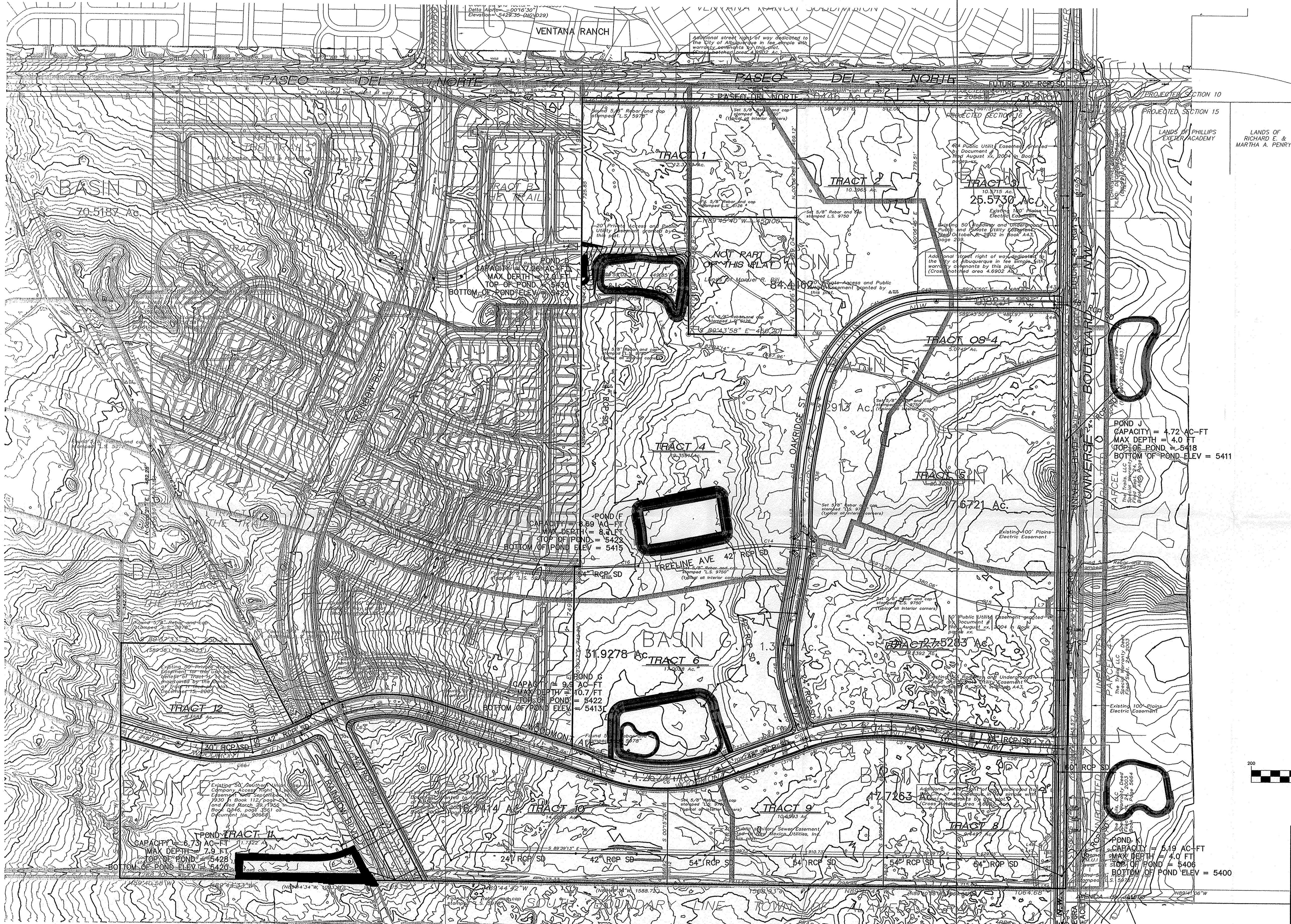
C: Bob Gay, NMUI
file

P.O. Box 1293

Albuquerque

New Mexico 87103

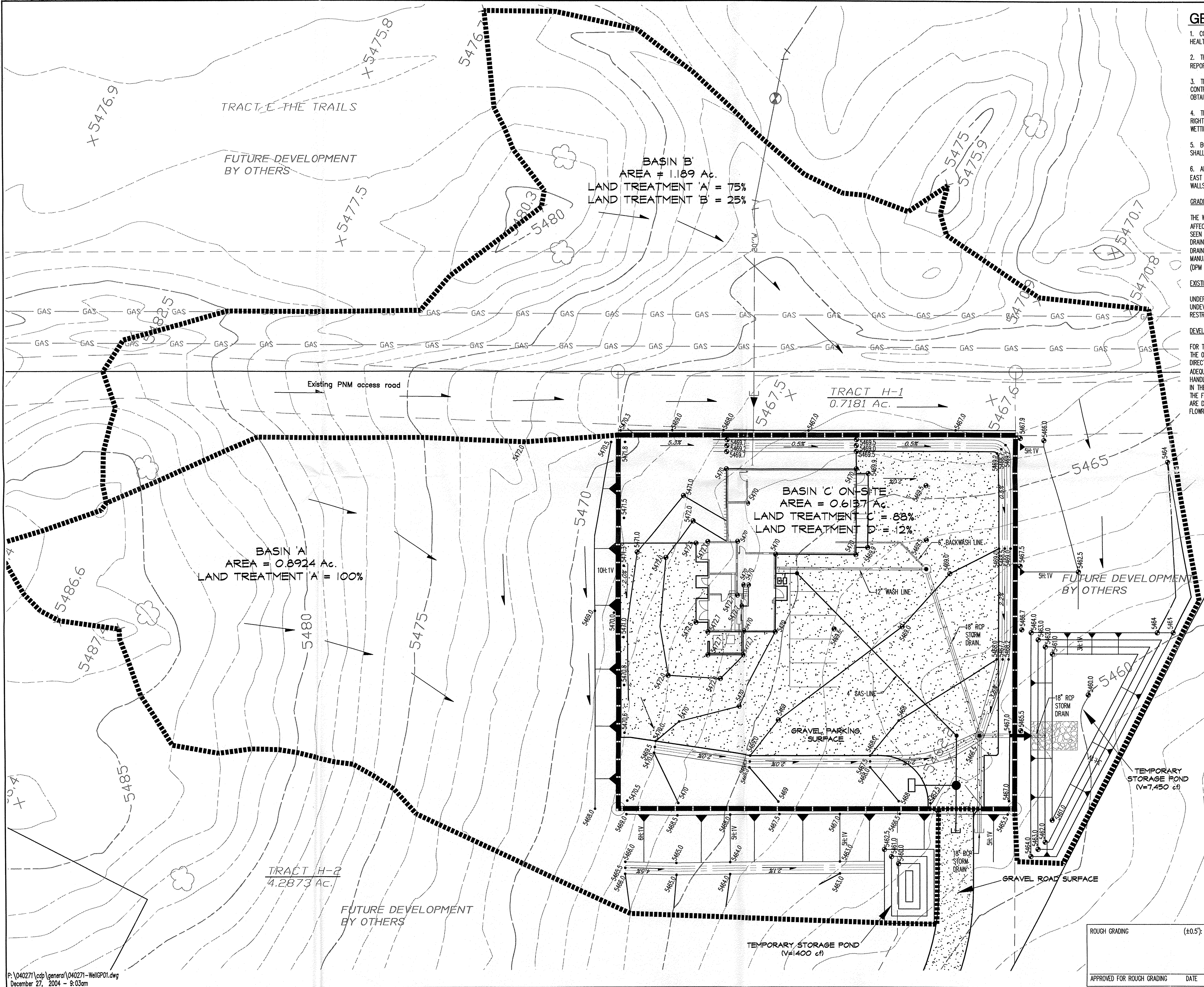
www.cabq.gov



WILSON & COMPANY
2600 THE AMERICAN ROAD S.E.
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 598-8021

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
THE TRAILS UNIT II OVERALL POND GRADING PLAN	
Design Review Committee	City Engineer Approval
City Project No. 730084	Zone Map No. C-9-Z
Sheet 4	Of ±44

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO. DATE		FIELD NOTES		ACS BRASS TABLET STAMPED "2-B10 1980"		CONTRACTOR	
REVISIONS		BY		Geographic Position (NAD 1927)		WORKS BY	
WILSON & COMPANY, ENGINEERS & ARCHITECTS		DATE		N.M. State Plane Coordinates (Central Zone)		INSPECTOR'S	
DESIGNED BY		DATE		X= 357,543.73 Y= 1,527,976.48		ACCEPTANCE BY	
DRAWN BY		DATE		Ground-to-Grid Factor = 0.99966354		DATE	
CHECKED BY		DATE		SLOPE TO-Grid Factor = 0.99966354		DRAWINGS	
				AC = -0016'30"		MICRO-FILM INFORMATION	
				SLD 1929 Elevation = 5429.35		RECORDED BY	
						DATE	



GENERAL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATION AS NOTED IN THE SOILS REPORT BY VINYARD & ASSOCIATES DATED 10/2004 (V&A PROJECT #04-1-382).
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST CONTROL MEASURES & REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
5. BOULDERS GREATER THAN 3 FEET IN DIAMETER EXCAVATED DURING GRADING ACTIVITIES SHALL BE STOCKPILED AND DISPOSED OF AT THE DISCRETION OF THE OWNER.
6. ALL WALLS SHOWN ARE TO BE PLACED ALONG PROPERTY LINE, EXCEPT FOR WALL ON EAST SIDE. THIS WALL IS APPROXIMATELY 26' WEST OF THE EASTERN PROPERTY LINE. WALLS ARE SHOWN OFFSET FOR VISUAL PURPOSES ONLY.

GRADING AND DRAINAGE PLAN

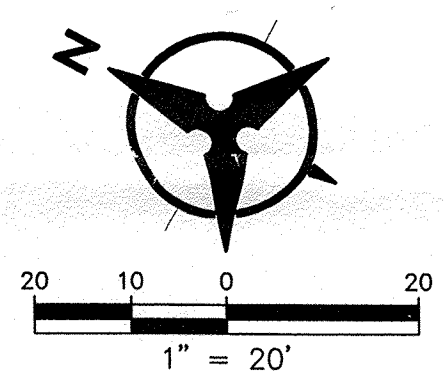
THE WELL SITE IS LOCATED ON A 0.7181 ACRE LOT WITH ONLY 0.6137 ACRES BEING AFFECTED. IT HAS TWO OFFSITE BASINS (SEE GRADING & DRAINAGE SHEET). AS CAN BE SEEN ON THE FEMA MAPPING EXHIBIT, THE SITE IS NOT SUSCEPTIBLE TO FLOODING. ALL DRAINAGE CALCULATIONS ARE DONE IN ACCORDANCE WITH THE BERNALILLO COUNTY DRAINAGE ORDINANCE (96-5) AND THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, CHAPTER 22.2. THE DESIGN STORM IS THE 100-YEAR 6-HOUR STORM IN ZONE 1 (DPM CHAPTER 22, FIGURE A-1).

EXISTING CONDITIONS

UNDER EXISTING CONDITIONS THE PROJECT SITE IS UNDEVELOPED AND SURROUNDED BY UNDEVELOPED LAND. SINCE FUTURE OFFSITE FLOWS COMING ONTO THE SITE WOULD BE RESTRICTED TO PREDEVELOPED LEVELS, ONLY THE EXISTING OFFSITE BASINS ARE USED.

DEVELOPED CONDITIONS

FOR THE CONDITIONS PROPOSED IN THIS PLAN SET THERE WILL BE NO FLOW OFFSITE FROM THE 0.6137 ACRES. INSTEAD ALL FLOW, INCLUDING FROM THE OFFSITE BASINS, WILL BE DIRECTED TO THE ONSITE DETENTION POND. THE DETENTION POND IS MORE THAN ADEQUATE (7,450 CU. FT.) FOR TWO (2) 100-YR 6-HR STORM AS IT IS SIZED TO HANDLE A TWO HOUR WASH CYCLE FOR THE WELL. THE WASH CYCLE WILL ONLY HAPPEN IN THE CASE OF AN EMERGENCY. TWO COBBLE LINED SWALES ARE USED TO TRANSPORT THE FLOWS TO THE DETENTION POND AND PREVENT EROSION ON THE SITE. THESE SWALES ARE DESIGNED TO HAVE A MINIMUM CAPACITY OF 5 CFS EACH. CALCULATIONS FOR FLOWRATES, VOLUMES, AND CAPACITIES ARE SHOWN ON THE FOLLOWING SHEET.



LEGEND

- GRAVEL SURFACE
- FUTURE PROPERTY BOUNDARY
- BASIN BOUNDARY
- PROPOSED SPOT ELEVATIONS
- EXISTING SPOT ELEVATIONS
- EXISTING CONTOUR W/ INDEX ELEVATION
- FLOW ARROW
- PROPOSED RETAINING WALL
- PROPOSED GARDEN WALL, CONCRETE FILLED TO 1-FOOT DEPTH
- PROPOSED SLOPE
- WALL DRAIN

Bohannon & Huston

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

NEW MEXICO UTILITIES, INC. WELL NO. 9

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
	C-9-Z	1	2

